

What is claimed is:

1. A tone signal generation system comprising:

an operation terminal that is capable of being carried by a human operator and that generates and transmits motion information corresponding to a motion of the human operator carrying said operation terminal; and

a tone signal generation apparatus that receives the motion information from said operation terminal and detects a movement trajectory of said operation terminal corresponding to the motion of the human operator on the basis of the received motion information, said tone signal generation apparatus generating a tone signal on the basis of the detected movement trajectory of said operation terminal.

2. A tone signal generation system as claimed in claim 1 wherein said tone signal generation apparatus includes a table storing at least one possible movement trajectory of said operation terminal and at least one tone signal in association with each other, and said tone signal generation apparatus generates a tone signal by referring to stored contents of said table.

3. A tone signal generation system as claimed in claim 2 wherein the stored contents of said table are rewritable.

4. A tone signal generation system as claimed in claim 1 wherein said tone signal generation apparatus determines a first parameter for generating a tone signal in accordance with a shape of the movement trajectory of said operation terminal, a second parameter for generating a tone signal in accordance with a size of the movement trajectory, and a third parameter for generating a tone signal in accordance with a moving speed or acceleration of the movement trajectory.

5. A tone signal generation system as claimed in claim 4 wherein each of said first, second and third parameters is a parameter for setting or controlling any one of tone color, tone volume, tone pitch and effect.

6. A tone signal generation system as claimed in claim 1 wherein said tone signal generation apparatus detects which one of a plurality of predetermined typical shapes a shape of the detected movement trajectory of said operation terminal corresponds to.

7. A tone signal generation system as claimed in claim 6 wherein the plurality of predetermined typical shapes include at least one of a circular shape, shape of a numeral "8", obliquely-cut surface shape, elongated oval shape, rectangular shape and spiral shape.

8. A tone signal generation system as claimed in claim

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1 wherein said tone signal generation apparatus detects, as the movement trajectory of said operation terminal, at least one of a plurality of trajectory elements including an approximate shape, approximate size and approximate moving speed or acceleration of the movement trajectory.

9. A tone signal generation apparatus comprising:

a receiver that receives motion information transmitted from an operation terminal capable of being carried by a human operator, the motion information corresponding to a motion of the human operator carrying the operation terminal;

a processing section that detects a movement trajectory corresponding to the motion of the human operator on the basis of the motion information received by said receiver; and

a tone signal generation section that generates a tone signal on the basis of the movement trajectory of the operation terminal detected by said processing section.

10. A tone signal generation system comprising:

an operation terminal that is capable of being carried by a human operator and that detects a mechanical amount of said operation terminal corresponding to a motion of the human operator carrying said operation terminal, such as an amount of displacement of a predetermined portion of said operation terminal or pressure applied to the predetermined portion, and transmits information indicative of the

detected mechanical amount; and

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a tone signal generation apparatus that receives the information indicative of the detected mechanical amount from said operation terminal and generates a tone signal on the basis of the received information indicative of the detected mechanical amount.

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11. A tone signal generation system as claimed in claim 10 wherein said operation terminal is in the form of a shoe wearable by the human operator, and said predetermined portion is a bottom of the shoe.

12. A tone signal generation system as claimed in claim 10 wherein said operation terminal is in the form of a stick, and said predetermined portion is a tip portion of the stick.

13. A tone signal generation apparatus capable of being carried by a human operator, said tone signal generation apparatus comprising:

a sensor section that generates motion information corresponding to a motion of the human operator carrying said tone signal generation apparatus;

a processing section that detects a movement trajectory of said tone signal generation apparatus corresponding to the motion of the human operator on the basis of the motion information generated by said sensor section; and

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a tone signal generation section that generates a tone signal on the basis of the movement trajectory detected by said processing section.

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14. A tone signal generation apparatus capable of being carried by a human operator, said tone signal generation apparatus comprising:

a detection section that detects a mechanical amount of said tone signal generation apparatus corresponding to a motion of the human operator carrying said tone signal generation apparatus, such as an amount of displacement of a predetermined portion of said tone signal generation apparatus or pressure applied to the predetermined portion; and

a tone signal generation section that generates a tone signal on the basis of information indicative of the mechanical amount detected by said detection section.

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15. A method of generating a tone signal corresponding to a motion of a human operator carrying an operation terminal, said method comprising:

a step of detecting a movement trajectory of said operation terminal corresponding to the motion of the human operator;

a step of generating a tone signal on the basis of the movement trajectory detected by said step of detecting.

a tone signal generation step of generating a tone signal on the basis of the received information indicative of the mechanical amount detected by said detection step.

18. A computer program comprising computer program code means for performing all the steps of claim 16 when said program is run on a computer.

a step of detecting a movement trajectory of said operation terminal corresponding to the motion of the human

a step of generating a tone signal on the basis of the movement trajectory detected by said step of detecting.

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a tone signal generation step of generating a tone signal on the basis of the received information indicative of the mechanical amount detected by said detection step.

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